

# AEROFLITE

## ENTERPRISES, INC.

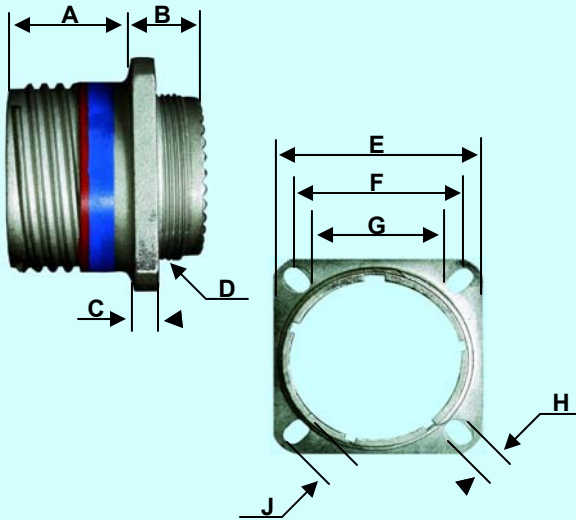
261 Gemini Avenue, Brea, CA 92821

### Boeing BACC63\*\* Connectors

- HIGH DENSITY FROM 1 TO 128 CONTACTS
- 100% SCOOP PROOF
- EMI SHIELDING UP TO 65dB AT 10 Ghz
- QUICK CONNECT/DISCONNECT COUPLING

High density, high reliability BACC63\*\* connectors from Souriau are available in composite and Stainless steel materials. The BACC63\*\* connectors are designed for the harshest environments and feature an anti-decoupling mechanism for improved performance under severe vibration conditions. The BACC63\*\* connectors are available for Being specific applications involving signal, fiber optics, PC Tails, coax, Twinax & Ouadrax contacts.

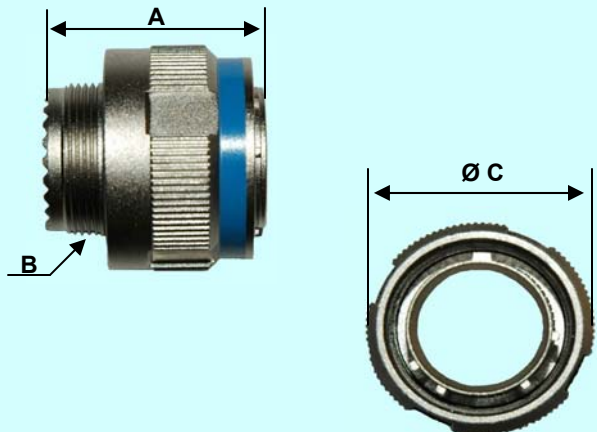
**BACC63CU or BACC63DC**  
Sq Flange Receptacle



Shell Size	MS Shell Size	A Max	B Max	C Max	D Thread	E	F	G	H	J
9	A	20.90 .823	10.60 .417	2.50 .098	M 12x 1-6g	23.80 .937	18.26 .719	15.09 .594	3.25 .128	5.49 .216
11	B	20.90 .823	10.60 .417	2.50 .098	M 15x 1-6g	26.20 1.031	20.62 .812	18.26 .719	3.25 .128	4.93 .194
13	C	20.90 .823	10.60 .417	2.50 .098	M 18x 1-6g	28.60 1.126	23.01 .906	20.62 .812	3.25 .128	4.93 .194
15	D	20.90 .823	10.60 .417	2.50 .098	M 22x 1-6g	31.00 1.220	24.61 .969	23.01 .906	3.25 .128	4.39 .173
17	E	20.90 .823	10.60 .417	2.50 .098	M 25x 1-6g	33.30 1.311	26.97 1.062	24.62 .969	3.25 .128	4.93 .194
19	F	20.90 .823	10.60 .417	2.50 .098	M 28x 1-6g	36.50 1.437	29.36 1.156	26.97 1.062	3.25 .128	4.93 .194
21	G	20.10 .791	10.40 .449	3.20 .126	M 31x 1-6g	39.70 1.563	31.75 1.250	29.36 1.156	3.25 .128	4.93 .194
23	H	20.10 .791	10.40 .449	3.20 .126	M 34x 1-6g	42.90 1.689	34.93 1.375	31.75 1.250	3.91 .154	6.15 .242
25	J	20.10 .791	10.40 .449	3.20 .126	M 37x 1-6g	46.00 1.811	38.10 1.500	34.93 1.375	3.91 .154	6.15 .242

Shell Size	MS Shell Size	A Max	B Thread	C Max
9	A	31.00 1.220	M 12x 1-6g	21.80 .858
11	B	31.00 1.220	M 15x 1-6g	25.00 .984
13	C	31.00 1.220	M 18x 1-6g	29.40 1.157
15	D	31.00 1.220	M 22x 1-6g	32.50 1.280
17	E	31.00 1.220	M 25x 1-6g	35.70 1.406
19	F	31.00 1.220	M 28x 1-6g	38.50 1.516
21	G	31.00 1.220	M 31x 1-6g	41.70 1.642
23	H	31.00 1.220	M 34x 1-6g	44.90 1.768
26	J	31.00 1.220	M 37x 1-6g	48.00 1.890

**BACC63CT or BACC63DB**  
Straight Plug



**For More Information Contact AeroFlite Enterprises, Inc.**

(714)773-4251 ♦ sales@aeroflite.com ♦ Fax: (714)773-4973

# Boeing BACC63\*\* Connectors

## CHARACTERISTICS

### MECHANICAL:

**Shell:** Composite or Stainless Steel  
**Plating:** Composite - 12µm Electroless NI over 3 - 12µm CU  
 Stainless—Passivated per AMS-QQ-P-35  
**Insulator:** Thermoplastic or Thermoset  
**Elastomers:** Silicone

**Contact Plating:** Gold over Nickel  
**Endurance:** Stainless - 500 Cycles, Composite - 1,500 Cycles  
**Shock:** Stainless - per MIL-S-901, Composite per EN2591 D2  
**Vibration:** Sine: 60 g's with Temperature Cycling, Random: 44.1 gmh High Temp  
**Retention:** Size 22 - 45N; Size 20 - 67N; Size 16, 12 & 8 - 111N

### ELECTRICAL:

Test Voltage (Vrms)		
Service	Sea Level	21,000 m
M	1300	800
N	1000	600
I	1800	1000
II	2300	1000

Contact Resistance / Rating			
Size	Resistance	IR	Rating
22D	14.6 mΩ	≥5000 MΩ - 500Vdc	5A
20	7.3 mΩ		7.5A
16	3.8 mΩ		13A
12	1.7 mΩ		23A
8	3 mΩ		48A

Finish	Shell Continuity	Shielding
NI Plated	3 mΩ	90 db at 100 GHz
Stainless	1 mΩ	-50db to 10000 MHz

### ENVIRONMENTAL:

#### Climatic

##### Temperature Range

-65° C + 200° C

##### Sealing

- Altitude & Immersion per MIL-DTL-38999

##### Salt Spray

- Stainless - MIL-STD-1344 / 1001, Composite - 2,000 hrs

##### Damp Heat

- MIL-DTL-38999 - 10 Cycles, 24hrs

#### Fluid Resistance to MIL-DTL-38999

- Gasoline: JP5 (OTAN F44)
- Mineral Hydraulic Fluid: MIL-H-5606 (OTAN H515)
- Synthetic Hydraulic Fluid: Skydrol 500 B4, LD4 (SAE AS 1241)
- Mineral Lubricating: MIL-L-7870A (OTAN 0142)
- Synthetic Lubricating: MIL-L-23699 (OTAN 0156) MIL-L-7808
- Cleaning Fluid: MIL-C-25769 (Diluted)
- De-Icing Fluid: MIL-A-8243
- Extinguishing Fluid: Chlorobromethane
- Cooling Fluid: Coolanol

FOR ADDITIONAL DATA, CONTACT AEROFLITE ENTERPRISES, INC.

## HOW TO ORDER

**Series** BACC63CT      15 - 19 P N H

BACC63CT - Straight Plug, NI Plated Composite  
 BACC63CU - Receptacle, NI Plated Composite  
 BACC63DB - Plug, Stainless Steel  
 BACC63DC - Receptacle, Stainless Steel

**Shell Size** \_\_\_\_\_  
 09, 11, 13, 15, 17, 19, 21, 23 & 25

**Separator** \_\_\_\_\_  
 Per BACC63\*\*

**Insert Arrangement** \_\_\_\_\_  
 Consult AeroFlite Enterprises, Inc.

**Contact Type** \_\_\_\_\_  
 P - Pin  
 S - Socket

**Key Position** \_\_\_\_\_  
 Consult AeroFlite Enterprises, Inc.

**Ordering Option** \_\_\_\_\_  
 H - Less Contacts & Sealing Plug  
 (Note: Not marked on connector)  
 Blank - With Contacts & Sealing Plug

**NOTE: PLUGS & RECEPTACLES ARE SUPPLIED WITH DUST COVERS INSTALLED**

## MISCELLANEOUS DATA

### Contact Information:

Pin contacts per BACC47GC  
 Socket contacts per BACC47GD  
 Quadrax pins per BACC47GM  
 Quadrax sockets per BACC47GN  
 Sealing plugs per MS27488

COAX, TWINAX & QUADRAX CONTACT ARE PURCHASED SEPARATELY

**Note: BACC63\*\* connectors with Coax, Twinax or Quadrax contacts should not be used in high temperature applications.**

BACC63\*\* connectors will accommodate most contacts and accessory hardware commonly used with MIL-DTL-38999 Series III connectors. For specific acceptable hardware & material combinations, contact:

**AEROFLITE ENTERPRISES, INC.**

CONSULT AEROFLITE FOR DUST CAPS & ACCESSORIES

**Backshells** 8D      102      F      02

Series \_\_\_\_\_ Backshell Type

Size - 09 11 13 15 17 19 21 23 25  
 Index - 101 102 103 104 105 107 108 109

Plating \_\_\_\_\_

F = Electroless Nickel

01 - Backnut  
 02 - Straight Cable Clamp  
 03 - 90° Cable Clamp  
 13 - B/S for Shrink Sleeve

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